	r			
L Number	Hits	Search Text	DB	Time stamp
1	205	pixel\$2 same varian\$4 same sequen\$7	USPAT; US-PGPUB; IBM TDB	2004/05/06 10:02
2	60	(pixel\$2 same varian\$4 same sequen\$7) same (range threshold\$4)	USPĀT; US-PGPUB;	2004/05/06 11:38
3	478	(382/131).CCLS.	IBM_TDB USPAT; US-PGPUB;	2004/05/06 10:32
4	7	((382/131).CCLS.) and (variance near5 pixel)	IBM_TDB USPAT; US-PGPUB;	2004/05/06 10:24
5	19	((382/131).CCLS.) and (pixel same variance)	IBM_TDB USPAT; US-PGPUB;	2004/05/06 10:36
6	2852	((382/131,128) or (250/455) or (128/922) or (356/39) or (377/10)).CCLS.	IBM_TDB USPAT; US-PGPUB; IBM TDB	2004/05/06 10:37
7	65	(((382/131,128) or (250/455) or (128/922) or (356/39) or (377/10)).CCLS.) and (pixel near8 variance)	USPAT; US-PGPUB; IBM TDB	2004/05/06 11:08
8	1	(((382/131,128) or (250/455) or (128/922) or (356/39) or (377/10)).CCLS.) and ((pixel near8 variance) same (one adj1	USPAT; US-PGPUB; IBM_TDB	2004/05/06 11:10
9	7	<pre>dimension\$4)) ((pixel near8 variance) same (one adj1 dimension\$4))</pre>	USPAT; US-PGPUB;	2004/05/06 11:13
10	1468	variance adj5 noise	IBM_TDB USPAT; US-PGPUB; IBM_TDB	2004/05/06 11:13
11	196	(variance adj5 noise) same (threshold range)	USPAT; US-PGPUB; IBM TDB	2004/05/06 11:14
12	25	((variance adj5 noise) same (threshold range)) same pixel	USPAT; US-PGPUB; IBM TDB	2004/05/06 11:14
14	0	((("5933540") or ("5262725") or ("5802218")).PN.) and arerage	USPAT; US-PGPUB; IBM TDB	2004/05/06 11:24
15	1	((("5933540") or ("5262725") or ("5802218")).PN.) and average	USPĀT; US-PGPUB; IBM TDB	2004/05/06 11:24
13	3	(("5933540") or ("5262725") or ("5802218")).PN.	USPAT; US-PGPUB; IBM TDB	2004/05/06 11:25
16	0	"09883820"	USPĀT; US-PGPUB; IBM_TDB	2004/05/06 11:38
17	1	"09/883820"	USPAT; US-PGPUB; IBM TDB	2004/05/06 11:43
18	531	pixel same variance same average	USPĀT; US-PGPUB; IBM TDB	2004/05/06 11:44
19	69	<pre>(pixel same variance same average) same (minimum lowest)</pre>	USPAT; US-PGPUB; IBM TDB	2004/05/06 11:43
20	33	<pre>pixel same ((minimum lowest lower) near5 variance) same average</pre>	USPAT; US-PGPUB; IBM TDB	2004/05/06 11:53
21	204	((minimum lowest lower) near5 variance) near7 average	USPAT; US-PGPUB; IBM TDB	2004/05/06 11:53
22	20	(((minimum lowest lower) near5 variance) near7 average) same (pixel)	USPAT; US-PGPUB; IBM TDB	2004/05/06 11:54

L Number	Hits	Search Text	DB	Time stamp
1 Number	205	pixel\$2 same varian\$4 same sequen\$7	USPAT;	2004/05/06 10:02
1	203	principle dame variant. Same sequent,	US-PGPUB;	2001,03,00 10.02
			IBM TDB	
2	60	(pixel\$2 same varian\$4 same sequen\$7) same	USPAT;	2004/05/06 10:23
_		(range threshold\$4)	US-PGPUB;	
		,	IBM TDB	
3	478	(382/131).CCLS.	USPAT;	2004/05/06 10:32
			US-PGPUB;	
			IBM TDB	
4	7	((382/131).CCLS.) and (variance near5	USPAT;	2004/05/06 10:24
		pixel)	US-PGPUB;	
			IBM TDB	
5	19	((382/131).CCLS.) and (pixel same	USPAT;	2004/05/06 10:36
		variance)	US-PGPUB;	
			IBM TDB	
6	2852	((382/131,128) or (250/455) or (128/922)	USPAT;	2004/05/06 10:37
		or (356/39) or (377/10)).CCLS.	US-PGPUB;	
			IBM_TDB	
7	65	(100, 100, 100, 100, 100, 100, 100, 100,	USPAT;	2004/05/06 11:08
		or (356/39) or (377/10)).CCLS.) and (pixel	US-PGPUB;	
		near8 variance)	IBM_TDB	
8	1	(100,000)	USPAT;	2004/05/06 11:10
		or (356/39) or (377/10)).CCLS.) and	US-PGPUB;	
		((pixel near8 variance) same (one adj1	IBM_TDB	
	_	dimension\$4))		
9	7	(the days	USPAT;	2004/05/06 11:13
10		dimension\$4))	US-PGPUB;	
	1460	115	IBM_TDB	
10	1468	variance adj5 noise	USPAT;	2004/05/06 11:13
1.1			US-PGPUB;	
	100	(IBM_TDB	0004/05/06 77 71
11	196	(variance adj5 noise) same (threshold	USPAT;	2004/05/06 11:14
		range)	US-PGPUB;]
12	25	((manianas adif maisa) man (Abura) - 1 -	IBM_TDB	2004/05/06 11 11
1 2	25	((variance adj5 noise) same (threshold	USPAT;	2004/05/06 11:14
İ		range)) same pixel	US-PGPUB;	
			IBM TDB	

US-PAT-NO:

6658136

DOCUMENT-IDENTIFIER: US 6658136 B1

TITLE: System and process for locating and tracking a person or

Detailed Description Text - DETX (23):

object in a scene

using a series of range images

----- KWIC -----

Next, a mean is computed for each pixel location by dividing the sum of the pixel depths associated with the location by the number of valid pixels at that location. In addition, the variance is computed for each pixel location by subtracting the square of the mean computed for the location from the sum of the squares of the pixel depths at that location, divided by the square of the number of valid pixels associated with the location. The square root of this variance is the standard deviation. It is noted that in the above calculations, a valid pixel location is defined as one where at least 25% of

the pixels used to compute the sums had

even if more than 25% of the pixels had

valid disparity values. In addition,

DOCUMENT-IDENTIFIER: US 20030161518 A1

TITLE:

Gradation processing

method

----- KWIC -----

Current US Classification, US Primary Class/Subclass - CCPR (1): 382/128

Detail Description Paragraph - DETX (145): [0212] The noise reduction method disclosed in prior art document EP 574 969 is based on a selective attenuation of pixels of the smaller scales of the multiscale representation (more particularly of the three smaller scales). In each of these images the local variance is calculated around each pixel. Next the local variance is compared with the noise variance. If the local variance is significantly larger than the noise variance, it is assumed that the captured pixel comprises relevant image information and no attenuation is applied. On the other hand, if the local variance approximates the noise variance, the image area is considered to be homogeneous and the pixel of the

DOCUMENT-IDENTIFIER: US 6704437 B1

TITLE: Noise estimation

method and apparatus for noise adaptive

ultrasonic image

processing

----- KWIC -----

Brief Summary Text - BSTX (3):

Denison U.S. Pat. No. 4,761,819
discloses an adaptive noise reduction
filter for use with MRI or other scanners.
In the disclosed system a weighting
function is used based on the variance of
the diagnostic data noise and the
variance of the pixel value. Noise variance
is estimated by the smallest data
value difference between each data value and
its neighbors.

Detailed Descrip

DOCUMENT-IDENTIFIER: US 6466687 B1
See image for Certificate of Correction

TITLE: Method and apparatus for analyzing CT images to determine the presence of pulmonary tissue pathology

----- KWIC -----

Detailed Description Text - DETX (20):

I. Gray Level Distribution Measures (a)
Mean Gray Level (MEAN) -- provides a
measurement of the overall
lightness/darkness of the image. ##EQU1##
where:

g(i,j) is the gray level at pixel location (i,j) of the image R is the matrix of the ROI N is the total number of <u>pixels</u> (b) Variance of Gray Levels

(VAR) -- characterizes the shape of the gray level histogram. The standard deviation, which describes the overall contrast of the image, can be calculated from the variance. ##EQU2## (c) Skewness (SKEW) -- quantitatively evaluates the asymmetry of the gray level histogram's shape. ##EQU3## (d) Kurtosis (KURT) -- measures the peakedness of the gray level histogram relative to the length and size of the tails of the histogram (i.e., those regions to the

DOCUMENT-IDENTIFIER: US 6246783 B1
See image for Certificate of Correction

TITLE: Iterative filter

framework for medical images

Detailed Description Text - DETX (26):

3) At each direction, compute the mean value and the <u>variance of the 3</u> corresponding pixels.

Detailed Description Text - DETX (33):

3) For one direction, compute the mean value and the <u>variance of the 3</u>
<u>corresponding pixels</u> and use these for the subsequent calculations.

Detailed Description Text - DETX (47):

c) At each direction, compute the mean value and the <u>variance of the 3</u> corresponding pixels.

Current US Original Classification - CCOR (1):

382/12

DOCUMENT-IDENTIFIER: US 6059729 A

Method and apparatus TITLE:

for edge enhancement in ultrasound

imaging

----- KWIC -----

Detailed Description Text - DETX (15):

In accordance with the preferred embodiment of the invention, an image frame of pixel data is divided into non-overlapping 4 pixel by 4 pixel blocks as shown in FIG. 3. Each block is characterized by a value proportional to the contrast of the block. The contrast of each 4 pixel by 4 pixel block is determined by computing the variance of the pixel values p.sub.xy as follows: ##EQU1## where C denotes block contrast. compute a value proportional to the contrast, the division by 15 is eliminated. The steps of dividing the image frame into blocks and computing the variance of the pixel values in each block are performed by the host computer 20. The host computer then checks whether the contrast for a given block is

greater than a user-selectable contrast threshold, w

DOCUMENT-IDENTIFIER: US 5933540 A

TITLE: Filter system and method for efficiently suppressing noise and improving edge definition in a digitized image

----- KWIC -----

Claims Text - CLTX (10):

(4) modifying said selected <u>pixel value</u>

<u>based upon said enhancement argument</u>

<u>to reduce local variances in pixel</u> values

due to noise.

Claims Text - CLTX (30):

(4) means for modifying said selected pixel value based upon said enhancement argument to reduce local variances in pixel values due to noise.

Claims Text - CLTX (52):

(4) means for modifying said selected pixel value based upon said enhancement argument to reduce local variances in pixel values due to noise;

Current US Cross Reference Classification -